

as per patent of Henry Ellis, Great Britain, No. 2267. It was not shown, however, that it was purchasable as ink in this country in 1868.

The decision of the Chancellor in favor of the contestants was sustained in 1894 by the Court of Errors and Appeals.

While an alkaline aurine solution produces an ink very similar to cosine in many properties and reactions, it differs widely in others and especially in not having greenish yellow fluorescence of cosine in diluted solution and in not showing the same absorption spectrum and derivative spectra.

The accompanying maps show the spectra observed with thin layers of various inks. A Donné lactoscope proved very useful in varying the thickness of the layer until the most characteristic appearance was obtained. The same absorption bands were afterwards recognized when pen marks made with these inks were examined under a microscope to which a Zeiss spectroscopic eye-piece was adjusted.

The spectroscopic examination of the ink while on the document should be followed whenever allowed by observations of the spectra produced when the ink is subjected to the action of chemicals.

Very marked changes occur, and since even colorless solutions may show absorption bands this means of identification possesses the double advantage of an accurate physical test without injury to the document together with a combined chemical and physical test where the application of reagents is permitted.

*Stated Meeting, April 17, 1896.*

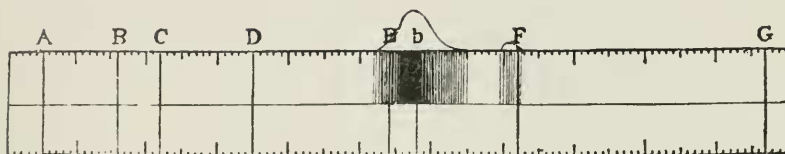
President, Mr. FRALEY, in the Chair.

Present, 20 members.

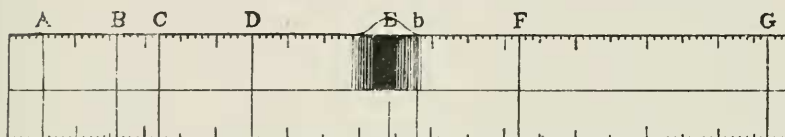
Mr. Georges Bertin, a newly elected member, was presented and took his seat.

Minutes of meeting of April 10 were read and approved.

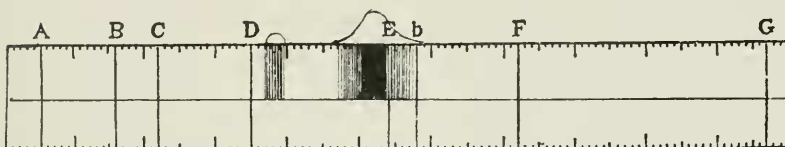
Letters of acknowledgment were received from the Public Library, Wellington, N. Z. (147); Universitatis Lundensis, Lund, Sweden (147); Profs. Friedrich Müller, Edward Suess, Vienna, Austria (148); Naturforschende Gesellschaft, Bamberg, Bavaria (147); K. Sächs. Meteorol. Institut, Chemnitz (148); Verein für Erdkunde, Dresden, Saxony (147, 148); Wetterauische Gesellschaft, Hanau, Germany (147); Verein für



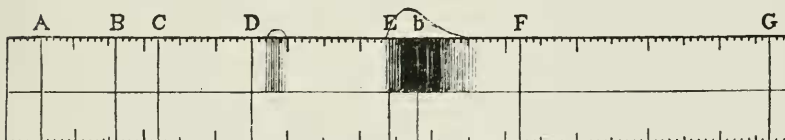
EOSINE IN WATER.



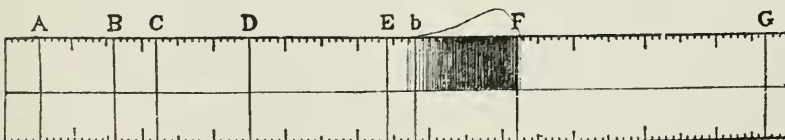
AURINE IN DILUTE ALKALI.



CARMINE IN AMMONIUM HYDRATE.



DAVID'S BRILLIANT CARMINE INK.



SAFRANINE.

